

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/256,156A

DATE: 06/30/1999
TIME: 16:57:39

Input Set: I256156A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: GILLIES, Stephen D
2 LO, Kin-Ming
3 LAN, Yan
4 WESOLOWSKI, John
5 <120> TITLE OF INVENTION: Enhancing the Circulating Half-life of Antibody-based
6 Fusion Proteins
7 <130> FILE REFERENCE: LEX-003
8 <140> CURRENT APPLICATION NUMBER: US/09/256,156A
9 <141> CURRENT FILING DATE: 1999-02-24
10 <150> EARLIER APPLICATION NUMBER: US 60/075,887
11 <151> EARLIER FILING DATE: 1998-02-25
12 <160> NUMBER OF SEQ ID NOS: 8
13 <170> SOFTWARE: PatentIn Ver. 2.0
14 <210> SEQ ID NO 1
15 <211> LENGTH: 447
16 <212> TYPE: PRT
17 <213> ORGANISM: Homo sapiens
18 <220> FEATURE:
19 <223> OTHER INFORMATION: IGG-1 CHAIN C REGION
20 <220> FEATURE:
21 <221> NAME/KEY: VARIANT
22 <222> LOCATION: (1)..(117)
23 <223> OTHER INFORMATION: The Xaa at positions 1 to 117 are non-conserved
24 amino acids
25 <400> SEQUENCE: 1
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27 1 5 10 15
W--> 28 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
29 20 25 30
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31 35 40 45
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33 50 55 60
W--> 34 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 65 70 75 80
W--> 36 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
37 85 90 95
W--> 38 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
39 100 105 110
W--> 40 Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
41 115 120 125
42 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
43 130 135 140
44 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser

APR 13 2000

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46      Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
47              165              170              175
48      Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
49              180              185              190
50      Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
51              195              200              205
52      Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
53              210              215              220
54      Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
55      225              230              235              240
56      Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
57              245              250              255
58      Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
59              260              265              270
60      Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
61              275              280              285
62      Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
63              290              295              300
64      Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
65      305              310              315              320
66      Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
67              325              330              335
68      Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
69              340              345              350
70      Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
71              355              360              365
72      Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
73              370              375              380
74      Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
75      385              390              395              400
76      Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
77              405              410              415
78      Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
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80      His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
81              435              440              445
82      <210> SEQ ID NO 2
83      <211> LENGTH: 443
84      <212> TYPE: PRT
85      <213> ORGANISM: Homo sapiens
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87      <223> OTHER INFORMATION: IGG-2 CHAIN C REGION
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89      <221> NAME/KEY: VARIANT
90      <222> LOCATION: (1)..(117)
91      <223> OTHER INFORMATION: The Xaa at positions 1 to 117 are non-conserved
92      amino acids
93      <400> SEQUENCE: 2
94      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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W--> OK

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RAW SEQUENCE LISTING
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| | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 95 | 1 | 5 | 10 | 15 | | | | | | | | | | | |
| W--> | 96 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 97 | | 20 | | | | | 25 | | | | | 30 | | | |
| W--> | 98 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 99 | | 35 | | | | | 40 | | | | | 45 | | | |
| W--> | 100 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 101 | | 50 | | | | | 55 | | | | | 60 | | | |
| W--> | 102 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 103 | | 65 | | | | | 70 | | | | | 75 | | | 80 |
| W--> | 104 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 105 | | | 85 | | | | | | 90 | | | | | 95 | |
| W--> | 106 | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa | Xaa |
| | 107 | | | 100 | | | | | | 105 | | | | | 110 | |
| W--> | 108 | Xaa | Xaa | Xaa | Xaa | Xaa | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro |
| | 109 | | | 115 | | | | | | 120 | | | | | 125 | |
| | 110 | Ala | Pro | Cys | Ser | Arg | Ser | Thr | Ser | Glu | Ser | Thr | Ala | Ala | Leu | Gly |
| | 111 | | 130 | | | | | | | 135 | | | | 140 | | |
| | 112 | Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn |
| | 113 | | 145 | | | | | | | 150 | | | | 155 | | 160 |
| | 114 | Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln |
| | 115 | | | | 165 | | | | | | 170 | | | | 175 | |
| | 116 | Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser |
| | 117 | | | 180 | | | | | | 185 | | | | | 190 | |
| | 118 | Phe | Gly | Thr | Gln | Thr | Tyr | Thr | Cys | Asn | Val | Asp | His | Lys | Pro | Ser |
| | 119 | | | 195 | | | | | | 200 | | | | 205 | | |
| | 120 | Thr | Lys | Val | Asp | Lys | Thr | Val | Glu | Arg | Lys | Cys | Cys | Val | Glu | Cys |
| | 121 | | 210 | | | | | | 215 | | | | 220 | | | |
| | 122 | Pro | Cys | Pro | Ala | Pro | Pro | Val | Ala | Gly | Pro | Ser | Val | Phe | Leu | Phe |
| | 123 | | 225 | | | | | | 230 | | | | 235 | | | 240 |
| | 124 | Pro | Lys | Pro | Lys | Asp | Thr | Leu | Met | Ile | Ser | Arg | Thr | Pro | Glu | Val |
| | 125 | | | | 245 | | | | | | 250 | | | | 255 | |
| | 126 | Cys | Val | Val | Val | Asp | Val | Ser | His | Glu | Asp | Pro | Glu | Val | Gln | Phe |
| | 127 | | | 260 | | | | | | 265 | | | | | 270 | |
| | 128 | Trp | Tyr | Val | Asp | Gly | Val | Glu | Val | His | Asn | Ala | Lys | Thr | Lys | Pro |
| | 129 | | | 275 | | | | | | 280 | | | | 285 | | |
| | 130 | Glu | Glu | Gln | Phe | Asn | Ser | Thr | Phe | Arg | Val | Val | Ser | Val | Leu | Thr |
| | 131 | | 290 | | | | | | 295 | | | | 300 | | | |
| | 132 | Val | His | Gln | Asp | Trp | Leu | Asn | Gly | Lys | Glu | Tyr | Lys | Cys | Lys | Val |
| | 133 | | 305 | | | | | | 310 | | | | 315 | | | 320 |
| | 134 | Asn | Lys | Gly | Leu | Pro | Ala | Pro | Ile | Glu | Lys | Thr | Ile | Ser | Lys | Thr |
| | 135 | | | | 325 | | | | | | 330 | | | | 335 | |
| | 136 | Gly | Gln | Pro | Arg | Glu | Pro | Gln | Val | Tyr | Thr | Leu | Pro | Pro | Ser | Arg |
| | 137 | | | 340 | | | | | | 345 | | | | | 350 | |
| | 138 | Glu | Met | Thr | Lys | Asn | Gln | Val | Ser | Leu | Thr | Cys | Leu | Val | Lys | Gly |
| | 139 | | | 355 | | | | | | 360 | | | | 365 | | |
| | 140 | Tyr | Pro | Ser | Asp | Ile | Ala | Val | Glu | Trp | Glu | Ser | Asn | Gly | Gln | Pro |
| | 141 | | 370 | | | | | | 375 | | | | 380 | | | |
| | 142 | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Met | Leu | Asp | Ser | Asp | Gly | Ser |
| | 143 | | 385 | | | | | | 390 | | | | 395 | | | 400 |
| | 144 | Phe | Leu | Tyr | Ser | Lys | Leu | Thr | Val | Asp | Lys | Ser | Arg | Trp | Gln | Gln |

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RAW SEQUENCE LISTING
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Input Set: I256156A.RAW

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145          405          410          415
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149          435          440
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152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
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156 <220> FEATURE:
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159 <223> OTHER INFORMATION: The Xaa at positions 1 to 117 are non-conserved
160 amino acids
161 <400> SEQUENCE: 3
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163          1          5          10          15
W--> 164      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
165          20          25          30
W--> 166      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
167          35          40          45
W--> 168      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
169          50          55          60
W--> 170      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
171          65          70          75          80
W--> 172      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
173          85          90          95
W--> 174      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
175          100         105         110
W--> 176      Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
177          115         120         125
178      Ala Pro Cys Ser Arg Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
179          130         135         140
180      Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
181          145         150         155         160
182      Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
183          165         170         175
184      Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
185          180         185         190
186      Leu Gly Thr Gln Thr Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn
187          195         200         205
188      Thr Lys Val Asp Lys Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr
189          210         215         220
190      Thr His Thr Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro
191          225         230         235         240
192      Pro Pro Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro
193          245         250         255
194      Pro Cys Pro Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/256,156A

 DATE: 06/30/1999
 TIME: 16:57:39

Input Set: I256156A.RAW

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195          260          265          270
196      Cys Pro Arg Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
197          275          280          285
198      Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
199          290          295          300
200      Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
201      305          310          315          320
202      Gln Phe Lys Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
203          325          330          335
204      Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val
205          340          345          350
206      Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
207          355          360          365
208      Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
209          370          375          380
210      Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
211      385          390          395          400
212      Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
213          405          410          415
214      Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly
215          420          425          430
216      Gln Pro Glu Asn Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp
217          435          440          445
218      Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
219          450          455          460
220      Gln Gln Gly Asn Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His
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225      <211> LENGTH: 444
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227      <213> ORGANISM: Homo sapiens
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234      amino acids
235      <400> SEQUENCE: 4
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237          1          5          10          15
W--> 238      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
239          20          25          30
W- 240      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
241          35          40          45
W--> 242      Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
243          50          55          60
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```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I256156A.RAW

| Line | Error/Warning | Original Text |
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| 28 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 30 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 32 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 34 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 36 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 38 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 40 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly P |
| 94 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
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| 106 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 108 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly P |
| 162 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
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| 166 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 168 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 170 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 172 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 174 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 176 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly P |
| 236 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 238 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 240 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 242 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 244 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 246 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 248 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa X |
| 250 | W "N" or "Xaa" used: Feature required | Xaa Xaa Xaa Xaa Xaa Ala Ser Thr Lys Gly P |